

Application No. 09/819,197  
Amendment dated June 28, 2004

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-35 (canceled)

Claim 36 (currently amended) A method of increasing combustion of a first hydrocarbon fuel in a combustion chamber, the combustion normally using only air as an oxidant, part of the air entering the combustion chamber through one or more first hydrocarbon fuel burners in a first zone of the combustion chamber, and a remaining portion of air normally entering the combustion chamber at a plurality of locations downstream of said first hydrocarbon fuel burners, the method comprising injecting a first oxygen-enriched gas into the combustion chamber at said plurality of locations, wherein the first oxygen-enriched gas ~~being in an amount sufficient to provide~~ has an oxygen concentration of no more than 2% greater on a volume basis than ~~when said air is used alone~~, and ~~wherein~~ the first oxygen-enriched gas is being injected through a lance at a velocity, said lance injecting said first oxygen-enriched gas into a flame created by a second oxygen-enriched gas and a second hydrocarbon fuel.

Claim 37 (original) Method in accordance with claim 36 wherein said velocity is subsonic.

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Claim 38 (original) Method in accordance with claim 36 wherein said velocity is supersonic.

Claim 39 (original) Method in accordance with claim 36 wherein said second hydrocarbon fuel is selected from the group consisting of gaseous, liquid, and particulate fuels.

Claim 40 (original) Method in accordance with claim 36 wherein said second oxygen-enriched gas has substantially the same concentration of oxygen as said first oxygen-enriched gas.

Claim 41 (original) Method in accordance with claim 36 wherein each lance is positioned at a first angle ranging from about 20° to about 160°, said first angle measured in a first plane which is substantially vertical and substantially perpendicular to its corresponding wall.

Claims 42-50 (canceled)